

1. Checking current images (hello-docker and ubuntu are from week 8 docker tutorial) and searching for images

```
seansom@alm MINGW64 ~/OneDrive/Documents/Programming/Repositories/CoE-197-S/ME8_Containerization_and_Docker (201802410_Sombrito_feature_activity01)
$ docker images
REPOSITORY          TAG                 IMAGE ID            CREATED             SIZE
hello-docker        latest             5a8b3718878c       6 days ago         113MB
ubuntu              latest             7e0aa2d69a15       2 weeks ago        72.7MB

seansom@alm MINGW64 ~/OneDrive/Documents/Programming/Repositories/CoE-197-S/ME8_Containerization_and_Docker (201802410_Sombrito_feature_activity01)
$ docker search ubuntu
NAME                DESCRIPTION                                     STARS     OFFICIAL   AUTOMATED
ubuntu              Ubuntu is a Debian-based Linux operating sys... 12221     [OK]
dorowu/ubuntu-desktop-lxde-vnc Docker image to provide HTML5 VNC interface ... 528
websphere-liberty   WebSphere Liberty multi-architecture images ... 270       [OK]
rastasheep/ubuntu-sshd Dockerized SSH service, built on top of offi... 251
consol/ubuntu-xfce-vnc Ubuntu container with "headless" VNC session... 240
ubuntu-upstart       Upstart is an event-based replacement for th... 110       [OK]
neurodebian          NeuroDebian provides neuroscience research s... 81        [OK]
1andiinternet/ubuntu-16-nginx-php-phpmyadmin-mysql-5 ubuntu-16-nginx-php-phpmyadmin-mysql-5       50
ubuntu-debootstrap   debootstrap --variant=minbase --components=m... 44        [OK]
open-liberty         Open Liberty multi-architecture images based... 44        [OK]
i386/ubuntu          Ubuntu is a Debian-based Linux operating sys... 25
nuagebec/ubuntu      Simple always updated Ubuntu docker images w... 24
1andiinternet/ubuntu-16-apache-php-5.6 ubuntu-16-apache-php-5.6                     14
1andiinternet/ubuntu-16-apache-php-7.0 ubuntu-16-apache-php-7.0                     13
1andiinternet/ubuntu-16-nginx-php-phpmyadmin-mariadb-10 ubuntu-16-nginx-php-phpmyadmin-mariadb-10     11
1andiinternet/ubuntu-16-nginx-php-5.6-wordpress-4 ubuntu-16-nginx-php-5.6-wordpress-4           9
1andiinternet/ubuntu-16-nginx-php-5.6 ubuntu-16-nginx-php-5.6                       8
darksheer/ubuntu     Base Ubuntu Image -- Updated hourly          5
1andiinternet/ubuntu-16-nginx-php-7.0 ubuntu-16-nginx-php-7.0                       4
pivotaldata/ubuntu   A quick freshening-up of the base Ubuntu doc... 4
1andiinternet/ubuntu-16-nginx-php-7.1-wordpress-4 ubuntu-16-nginx-php-7.1-wordpress-4           3
```

2. Pulling and removing images

```
seansom@alm MINGW64 ~/OneDrive/Documents/Programming/Repositories/CoE-197-S/ME8_Containerization_and_Docker (201802410_Sombrito_feature_activity01)
$ docker pull ubuntu:16.10
16.10: Pulling from library/ubuntu
dca7be20e546: Pull complete
40bca54f5968: Pull complete
61464f23390e: Pull complete
d99f0bcd5dc8: Pull complete
120db6f90955: Pull complete
Digest: sha256:8dc9652808dc091400d7d5983949043a9f9c7132b15c14814275d25f94bca18a
Status: Downloaded newer image for ubuntu:16.10
docker.io/library/ubuntu:16.10

seansom@alm MINGW64 ~/OneDrive/Documents/Programming/Repositories/CoE-197-S/ME8_Containerization_and_Docker (201802410_Sombrito_feature_activity01)
$ docker images
REPOSITORY          TAG                 IMAGE ID            CREATED             SIZE
hello-docker        latest             5a8b3718878c       6 days ago         113MB
ubuntu              16.04             aefd7f02ae24       2 weeks ago        134MB
ubuntu              latest             7e0aa2d69a15       2 weeks ago        72.7MB
ubuntu              16.10             7d3f705d307c       3 years ago        107MB

seansom@alm MINGW64 ~/OneDrive/Documents/Programming/Repositories/CoE-197-S/ME8_Containerization_and_Docker (201802410_Sombrito_feature_activity01)
$ docker rmi 7d3f705d307c
Untagged: ubuntu:16.10
Untagged: ubuntu@sha256:8dc9652808dc091400d7d5983949043a9f9c7132b15c14814275d25f94bca18a
Deleted: sha256:7d3f705d307c7c225398e04d4c4f8512f64eb8a65959a1fb4514dfde18a047e7
Deleted: sha256:d9db289b9342d9617596cd6ee3bba988629e24d9afa5db4e4b0e4e491c65007d
Deleted: sha256:a87725e8597b97f2399bc3aa50b0e2eecd903b8ce19055668d3bfbf012918205c
Deleted: sha256:38cf10a2801529348366953e9b933d3524360dedc91d3e4d5d7f941da0c973c9
Deleted: sha256:61172966249d43026dbd017eecd3a9575e37bdf8a269a9f09ecb559d7bfe7fef
Deleted: sha256:57145c01eb80040fdd0a24cde20af4788605b49593188d4f7efab099af89a08e

seansom@alm MINGW64 ~/OneDrive/Documents/Programming/Repositories/CoE-197-S/ME8_Containerization_and_Docker (201802410_Sombrito_feature_activity01)
$ docker images
REPOSITORY          TAG                 IMAGE ID            CREATED             SIZE
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ubuntu              16.04             aefd7f02ae24       2 weeks ago        134MB
ubuntu              latest             7e0aa2d69a15       2 weeks ago        72.7MB
```

3. Running and listing containers

```
seansom@alm MINGW64 ~/OneDrive/Documents/Programming/Repositories/CoE-197-S/ME8_Containerization_and_Docker (201802410_Sombrito_feature_activity01)
$ docker run ubuntu:16.04

seansom@alm MINGW64 ~/OneDrive/Documents/Programming/Repositories/CoE-197-S/ME8_Containerization_and_Docker (201802410_Sombrito_feature_activity01)
$ docker run ubuntu:16.04 ./bin/echo 'Hello world!'
Hello world!

seansom@alm MINGW64 ~/OneDrive/Documents/Programming/Repositories/CoE-197-S/ME8_Containerization_and_Docker (201802410_Sombrito_feature_activity01)
$ docker ps
```

CONTAINER ID	IMAGE	COMMAND	CREATED	STATUS	PORTS	NAMES
0bb5208acdc6	ubuntu	"/bin/bash"	6 days ago	Up 6 days		adoring_lovelace
186b1590804e	ubuntu	"/bin/bash"	6 days ago	Up 6 days		peaceful_dubinsky

```
seansom@alm MINGW64 ~/OneDrive/Documents/Programming/Repositories/CoE-197-S/ME8_Containerization_and_Docker (201802410_Sombrito_feature_activity01)
$ docker ps -a
```

CONTAINER ID	IMAGE	COMMAND	CREATED	STATUS	PORTS	NAMES
305b734f75e6	ubuntu:16.04	"./bin/echo 'Hello w.."	About a minute ago	Exited (0)	About a minute ago	naughty_northcutt
e607d4dabad9	ubuntu:16.04	"/bin/bash"	About a minute ago	Exited (0)	About a minute ago	awesome_feistel
f56fa5d3eace	ubuntu:16.04	"C:/Program Files/Gi.."	About a minute ago	Created		stupefied_proskuriakova
4d29f6fc2f6d	ubuntu:16.04	"C:/Program Files/Gi.."	2 minutes ago	Created		gallant_chaum
0bb5208acdc6	ubuntu	"/bin/bash"	6 days ago	Up 6 days		adoring_lovelace
186b1590804e	ubuntu	"/bin/bash"	6 days ago	Up 6 days		peaceful_dubinsky
31e7b4ec0e95	ubuntu	"/bin/bash"	6 days ago	Exited (0)	6 days ago	epic_wiles
70b22f2a3c19	ubuntu	"/bin/bash"	6 days ago	Exited (0)	6 days ago	recursing_lalande
4a64704eb88f	hello-docker	"docker-entrypoint.s.."	6 days ago	Exited (0)	6 days ago	condescending_williams

```
seansom@alm MINGW64 ~/OneDrive/Documents/Programming/Repositories/CoE-197-S/ME8_Containerization_and_Docker (201802410_Sombrito_feature_activity01)
$ docker run -it ubuntu:16.04 ./bin/bash
root@1714caa90f45:/# pwd
/
root@1714caa90f45:/# ls
bin boot dev etc home lib lib64 media mnt opt proc root run sbin srv sys tmp usr var
root@1714caa90f45:/# exit
exit

seansom@alm MINGW64 ~/OneDrive/Documents/Programming/Repositories/CoE-197-S/ME8_Containerization_and_Docker (201802410_Sombrito_feature_activity01)
$ docker run -d ubuntu:16.04 ./bin/sleep 3600
ed03149978ab428a0eeefa152fad0096d863cb05bb67d1803d4fe91cd340d83e

seansom@alm MINGW64 ~/OneDrive/Documents/Programming/Repositories/CoE-197-S/ME8_Containerization_and_Docker (201802410_Sombrito_feature_activity01)
$ docker ps
```

CONTAINER ID	IMAGE	COMMAND	CREATED	STATUS	PORTS	NAMES
ed03149978ab	ubuntu:16.04	"./bin/sleep 3600"	7 seconds ago	Up 6 seconds		jovial_euler
0bb5208acdc6	ubuntu	"/bin/bash"	6 days ago	Up 6 days		adoring_lovelace
186b1590804e	ubuntu	"/bin/bash"	6 days ago	Up 6 days		peaceful_dubinsky

4. Reattaching, stopping, and killing containers

```
seansom@alm MINGW64 ~/OneDrive/Documents/Programming/Repositories/CoE-197-S/ME8_Containerization_and_Docker (201802410_Sombrito_feature_activity01)
$ docker exec -it ed0 ./bin/bash
root@ed03149978ab:/# pas aux
bash: pas: command not found
root@ed03149978ab:/# ps aux
```

USER	PID	%CPU	%MEM	VSZ	RSS	TTY	STAT	START	TIME	COMMAND
root	1	0.0	0.0	4372	656	?	Ss	19:56	0:00	./bin/sleep 3600
root	13	0.0	0.0	18232	3308	pts/0	Ss	19:59	0:00	./bin/bash
root	25	0.0	0.0	34420	2852	pts/0	R+	19:59	0:00	ps aux

```
root@ed03149978ab:/# exit
exit

seansom@alm MINGW64 ~/OneDrive/Documents/Programming/Repositories/CoE-197-S/ME8_Containerization_and_Docker (201802410_Sombrito_feature_activity01)
$ docker ps
```

CONTAINER ID	IMAGE	COMMAND	CREATED	STATUS	PORTS	NAMES
ed03149978ab	ubuntu:16.04	"./bin/sleep 3600"	4 minutes ago	Up 4 minutes		jovial_euler
0bb5208acdc6	ubuntu	"/bin/bash"	6 days ago	Up 6 days		adoring_lovelace
186b1590804e	ubuntu	"/bin/bash"	6 days ago	Up 6 days		peaceful_dubinsky

```
seansom@alm MINGW64 ~/OneDrive/Documents/Programming/Repositories/CoE-197-S/ME8_Containerization_and_Docker (201802410_Sombrito_feature_activity01)
$ docker stop ed0
ed0

seansom@alm MINGW64 ~/OneDrive/Documents/Programming/Repositories/CoE-197-S/ME8_Containerization_and_Docker (201802410_Sombrito_feature_activity01)
$ docker kill 0bb
0bb
```

5. Removing containers

```
seanson@alm MINGW64 ~/OneDrive/Documents/Programming/Repositories/CoE-197-S/ME8_Containerization_and_Docker (201802410_Sombrito_feature_activity01)
$ docker ps -a

```

CONTAINER ID	IMAGE	COMMAND	CREATED	STATUS	PORTS	NAMES
dfdf647b7c38	ubuntu	"C:/Program Files/Gi..."	7 minutes ago	Created		goofy_bhaskara
82a214c6e262	ubuntu:16.04	"C:/Program Files/Gi..."	7 minutes ago	Created		stupefied_hopper
ed03149978ab	ubuntu:16.04	"./bin/sleep 3600"	7 minutes ago	Exited (137) 2 minutes ago		jovial_euler
1714caa90f45	ubuntu:16.04	"./bin/bash"	9 minutes ago	Exited (0) 8 minutes ago		flamboyant_lehmann
2a21ebcc7952	ubuntu:16.04	"./bin/bash"	10 minutes ago	Exited (0) 10 minutes ago		epic_merkle
a45a49aa6fb1	ubuntu:16.04	"C:/Program Files/Gi..."	10 minutes ago	Created		strange_euler
305b734f75e6	ubuntu:16.04	"./bin/echo 'Hello w..."	13 minutes ago	Exited (0) 13 minutes ago		naughty_northcutt
e607d4dabad9	ubuntu:16.04	"./bin/bash"	14 minutes ago	Exited (0) 14 minutes ago		awesome_feistel
f56fa5d3eace	ubuntu:16.04	"C:/Program Files/Gi..."	14 minutes ago	Created		stupefied_proskuriakova
4d29f6fc2f6d	ubuntu:16.04	"C:/Program Files/Gi..."	14 minutes ago	Created		gallant_chaum
0bb5208acdc6	ubuntu	"./bin/bash"	6 days ago	Exited (137) 2 minutes ago		adoring_lovelace
186b1590804e	ubuntu	"./bin/bash"	6 days ago	Exited (137) About a minute ago		peaceful_dubinsky
31e7b4ec0e95	ubuntu	"./bin/bash"	6 days ago	Exited (0) 6 days ago		epic_wiles
70b22f2a3c19	ubuntu	"./bin/bash"	6 days ago	Exited (0) 6 days ago		recursing_lalande
4a64704eb88f	hello-docker	"docker-entrypoint.s..."	6 days ago	Exited (0) 6 days ago		condescending_williams

```

seanson@alm MINGW64 ~/OneDrive/Documents/Programming/Repositories/CoE-197-S/ME8_Containerization_and_Docker (201802410_Sombrito_feature_activity01)
$ docker rm $(docker ps -a -q)
dfdf647b7c38
82a214c6e262
ed03149978ab
1714caa90f45
2a21ebcc7952
a45a49aa6fb1
305b734f75e6
e607d4dabad9
f56fa5d3eace
4d29f6fc2f6d
0bb5208acdc6
186b1590804e

```